

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

August 9, 2000

MEMORANDUM

Subject:

Acute Toxicity Review for EPA Reg. No.: 3573-TE / Mariner

DP Barcode: D267062 Case No: 068860

To:

Adam Heyward, PM 34

Regulatory Management Branch Antimicrobials Division (7510C)

From:

Ian Blackwell, Biologist

Efficacy Evaluation Team Product Science Branch

Antimicrobials Division (7510C)

Through:

Karen Hicks, Team Leader

Chemistry and Toxicology Team

Product Science Branch

Antimicrobials Division (7510C)

Michele E. Wingfield, Chief Product Science Branch

Antimicrobials Division (7510C)

Applicant:

The Procter & Gamble Company

FORMULATION FROM LABEL:

Active Ingredient(s):

Citric acid

Other Ingredient(s):

% by wt.

4.5

Total:

Um Blackell

100%

BACKGROUND: The Procter & Gamble Company has submitted a primary eye and a primary skin irritation study in support of their product "Mariner". The MRID Numbers are 451128-06 and 451128-07. The studies were conducted by Springborn Laboratories, Inc.

These two studies have been submitted in response to a 3/22/99 PSB/AD acute toxicity review. That review requested the submission of these studies to complete the acute toxicity profile of Mariner. In the 3/22/99 review of Mariner (review ID# 290773 - at that time Mariner was not assigned a File Symbol), PSB/AD allowed Procter & Gamble to cite four of six acute toxicity studies conducted on Reg. No. 3573-54 to be used to support Mariner. Primary eye and skin irritation studies were requested to support Mariner.

RECOMMENDATIONS: PSB findings are:

- MRID Number 451128-06: The primary skin irritation study is acceptable.
- MRID Number 451128-07: The primary eye irritation study is unacceptable at this time.
 This study was conducted using the Low-Volume Eye Test (LVET) method. OPP/AD is currently deciding whether or not we will accept this test methodology, and, is currently not accepting studies conducted using this method.

The acute toxicity profile for File Symbol 3573-TE is currently:

acute oral toxicity	IV	acceptable
acute dermal toxicity	IV	acceptable
acute inhalation toxicity	IV	acceptable
primary eye irritation		unacceptable
primary skin irritation	IV	acceptable
dermal sensitization	Nonsensitizer	acceptable

LABELING:

SIGNAL WORD: CAUTION

PRECAUTIONARY STATEMENTS: (none required)

STATEMENT OF PRACTICAL TREATMENT (SOPT): (none required

Note To PM: The precautionary labeling requirements of this study may change upon the acceptance of a primary eye irritation study to support File Symbol 3573-TE.

DATA REVIEW FOR PRIMARY EYE IRRITATION TESTING (§81-4, 870.2400)

Product Manager: 34

Reviewer: lan Blackwell

MRID No.: 451128-07

Study Completion Date: 8/6/99 SLI Study No.: 3029.2218

Testing Laboratory: Springborn Laboratories, Inc.

Author(s): Kimberly L. Bonnette, M.S., LATG

Quality Assurance (40 CFR §160.12): Included

Test Material: SS0623.01; EPA File Symbol 3573-TE; "clear, colorless liquid"

Dosage: 0.01 mL (This was a Low-Volume Eye Test)

Species: New Zealand White rabbits

Sex: 2 males + I female

Weight: 3.558-4.100 kg

Age: young adult

Source: Myrtle's Rabbitry

Summary:

1. Toxicity Category:

2. Classification:

unacceptable

Procedure (Deviations From §81-4):

This study was conducted using the Low-Volume Eye Test method.

Results:

Observations	(number "positive"/number tested)								
	Hour	Days							
	1	1	2	3	4	7	14	21	
Corneal Opacity	0/3	0/3	0/3	0/3	0/3	0/3	_	_	
Iritis	3/3	0/3	0/3	0/3	0/3	0/3		_	
The second secon		Conjune	ctivae						
Redness	2/3	0/3	0/3	0/3	0/3	0/3	-	_	
Chemosis	0/3	0/3	0/3	0/3	0/3	0/3		_	
Discharge	0/3	0/3	0/3	0/3	0/3	0/3	_		

^{--- =} no observations at this point

DATA REVIEW FOR SKIN IRRITATION TESTING (§81-5, 870.2500)

Product Manager: 34

Reviewer: Ian Blackwell MRID No.: 451128-06 Study Completion Date: 8/6/99

SLI Study No.: 3029.2217

Testing Laboratory: Springborn Laboratories, Inc.

Author: Kimberly L. Bonnette, M.S., LATG

Quality Assurance (40 CFR §160.12): Included

Test Material: SS0623.01; EPA File Symbol 3573-TE; "clear, colorless liquid"

Dosage: 0.5 mL

Species: New Zealand White rabbits

Age: August 7, 2000adult

Sex: 2 males + 1 female Weight: 2.926-3.223 kg

Source: Myrtle's Rabbitry

Summary:

1. Toxicity Category: IV

2. Classification: acceptable

Procedure (Deviations From §81-5):

Results:

One hour after exposure: Very slight erythema in 3/3.

Twenty-four hours after exposure: Very slight erythema in 2/3.

Forty-eight hours after exposure: Very slight erythema in 1/3.

Seventy-two hours after exposure: Irritation clearing in 3/3. (No irritation observed.)